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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,443	02/19/2002	Atsuhiro Ohkawa	030662-082	9882
7590 06/22/2005			EXAMINER	
Platon N. Mandros			HON, SOW FUN	
BURNS, DOA	NE, SWECKER & MA'	ΓHIS, L.L.P.		
P.O. Box 1404			ART UNIT	PAPER NUMBER
Alexandria, V.	A 22313-1404		1772	-

DATE MAILED: 06/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/076,443	OHKAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sow-Fun Hon	1772	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the C	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 22 M 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pr		
Disposition of Claims			
4) ☐ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3: Copies of the certified copies of the priority application from the International Bureal * See the attached detailed Office action for a list	is have been received. Is have been received in Applications Introduce the second seco	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/22/05.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:		

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DETAILED ACTION

Rejections Repeated

1. The 35 U.S.C. 103(a) rejections over Larson in view of Sekine as the primary combination, have been repeated for the same reasons previously of record in the Office action dated 11/22/04.

Response to Arguments

2. Applicant argues that the secondary reference Sekine has no disclosure or suggestion of the use of general formula (I) compound thereof in a polarization sensitive scattering element (PSSE) as disclosed by Larson, and that therefore Sekine does not provide any motivation to combine Larson with Sekine.

Applicant is respectfully reminded that Larson teaches that liquid crystal (LC) has to have high birefringence in order to ensure that one of the refractive index is highly mismatched with the corresponding index of the polymer of the polymer dispersed liquid crystal (PDLC) (column 6, lines 36-46). Sekine teaches that the liquid crystal has a large anisotropy of refractive index for use in a PDLC type liquid crystal element (column 1, lines 10-20). The large anisotropy of refractive index of the liquid crystal of Sekine ensures that one of the refractive index is highly mismatched with the corresponding index of the polymer of the PDLC of Larson, meeting the criterion of Larson for a high birefringent LC, thus providing the motivation to combine. Sekine teaches that the liquid crystal is used in a PDLC type liquid crystal element, and is therefore analogous art. Therefore the combination of Larson in view of Sekine is valid.

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3. Applicant argues that Larson discloses that US 4,685,771 describes a PDLC structure for use in the Larson polarized display, wherein the liquid crystal is completely different from the general formula (I) compound disclosed by Sekine, such that one of ordinary skill in the art would not have been motivated to modify the PDLC of Larson with the general formula (I) compound of Sekine.

Applicant is respectfully apprised that Larson was disclosing US 4,685,771 as one example of a PDLC and that others have reported related structures with similar polarization sensitive scattering properties (column 6, lines 1-5). Larson teaches the use of "a suitable high birefringence LC" (column 6, lines 42-50), and therefore teaches the use of other liquid crystals as long as they have suitably high birefringence. The LC of Sekine has a large anisotropy, and therefore has suitably high birefringence.

4. Applicant argues that the mere use of a large anisotropy of refractive index does not fairly suggest the use of the general formula (I) compound of Sekine in the PSSE disclosed by Larson, since at best, Sekine's disclosure concerning the large anisotropy of refractive index may suggest that the general formula (I) is suitable for use as a liquid crystal.

Applicant is respectfully apprised that the general formula (I) compound of Sekine is a liquid crystal by the nature of its molecular structure (column 1, lines 10-20). As discussed above, the large anisotropy of refractive index of the liquid crystal of Sekine ensures that one of the refractive index is highly mismatched with the corresponding index of the polymer of the PDLC of Larson, meeting the criterion of Larson for a high birefringent LC, thus providing the motivation to combine. Sekine

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teaches that the liquid crystal is used in a PDLC type liquid crystal element, and is therefore analogous art. Therefore the combination of Larson in view of Sekine is valid.

5. Applicant argues that Shen fails to cure the deficiency of Larson [to provide motivation for the use of the liquid crystal of Sekine].

Applicant is respectfully directed to the discussion above.

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (571)272-1492. The examiner can normally be reached Monday to Friday from 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached at (571)272-1498. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sow-Fun Hon

HAROLD PYON
SUPERVISORY PATENT EXAMINER

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